

IN THE CLAIMS:

1 – 14. (Canceled)

15. (Currently Amended) A method for augmenting an existing base station, according to claim 1, further comprising: said existing base station including a main antenna array having transmit and receive elements and a diversity antenna array having receive elements, said existing base station thereby providing receive diversity, said method comprising:

replacing said diversity antenna array with a new diversity antenna array comprising both receive and transmit elements, said replacing being to augment said existing base station to provide both transmit and receive diversity; and

adding a time delay to a transmitter section of said new diversity antenna array to feed a time-delayed sample to said new diversity antenna array, said time-delayed sample being of a signal transmitted by said main antenna array.

16 -22. (Canceled)

23. (Previously Presented) A method for augmenting an existing base station, said existing base station including a main antenna array, which comprises both transmit and receive antenna elements, and a diversity antenna array, which comprises passive receive elements, said existing base station thereby providing receive diversity, said method comprising:

replacing said diversity antenna array with a new diversity antenna array comprising both receive and transmit elements, thereby to augment said base station to provide both transmit and receive diversity,

co-locating said receive and transmit elements at the top of a building to form one common array;

coupling a directional coupler to said main antenna array and to said new diversity antenna array, to sample a transmit signal emitted from said main antenna array; and

connecting an isolator to said main antenna array, in order to control spurious emissions emitted from said base station.

24. (Original) A method augmenting an existing base station augmentation according to claim 23, wherein said main antenna and said new diversity antenna are co-located.

25. (Original) A method of augmenting an existing base station augmentation according to claim 23, further including,

connecting a delay unit to a transmit port of said new diversity antenna array to feed a time-delays sample to said new diversity antenna array, said time-delayed sample being of a signal transmitted by said main antenna.

26. (Original) A method of augmenting an existing base station according to claim 23, wherein said isolator is a ferrite isolator.

27. (Original) A method of augmenting an existing base station according to claim 26, wherein said ferrite isolator possesses low internal intermodulation distortion.

28. (Original) An existing base station augmentation method according to claim 23, further including:

locating said directional coupling at the top of said building.